Connect to fcdfsam2 as sam:

```
$ ssh sam@fcdfsam2
```

 Run the script to find current filesize and CRC mismatches. This reads in the corresponding .sql file and takes about 8 minutes to run:

```
$ source list_file_size_and_CRC_incorrect
```

- The result will be two lists of file names
  - The first list is files with filesize mismatches
  - The second list is files with CRC mismatches
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- Get the dataset to which each file belongs:
  - Think of the file name as characters in an array with the first character at index [0]
  - Indices [0] and [1] should always be letters. Index
     [8] should always be a ".". Indices [13] through [16] should also always be letters.
  - The dataset name is then the sequence of characters at the following indices: [0][13][14][15] [16][1]
  - Example: file name bm0400d5.0369helb belongs to dataset "bhelbm"
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- Look up the "Contact person identifier" for each problem dataset using the DB Browser
  - Go to the DB Browser at http://cdfdbb.fnal.gov:8520/cdfr2/databases
  - Scroll down the page and click on Select this link to view outline of reports.
  - Under "Data Catalog", click on SAM Datasets' Registry Entries with Genealogy
  - In the "data set identifier" box, enter the problem dataset name and the result will include the contact
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- Send an email to the contact describing the problem and asking for investigation. Include:
  - The dataset name and all corresponding files
  - Whether the error is filesize, or CRC, or both.
  - List of possible actions
    - Correct the SAM DB entry to match the Enstore entry, then retire the file(s)
    - Correct the SAM DB entry to match the Enstore entry, then declare the file(s) "bad"
    - Delete the file(s)
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 If you need to correct the SAM DB entry to match the Enstore entry, execute the following substituting in a valid <username> and <password>:

```
$ ssh sam@fcdfsam2
$ source setups.sh
$ setup oracle_instant_client
$ setup oracle_tnsnames
$ sqlplus -s <username>/<password>@cdfofpr2 \
@correct file size and CRC
```

Next page...

 Instructions for dealing with the files themselves are available in other HowTo files:

```
retire_files.pdfmark_files_bad.pdfdelete files.pdf
```

Done!